

APPLICATION FOR
UNITED STATES LETTERS PATENT

SPECIFICATION

TO ALL WHOM IT MAY CONCERN:

Be it known that I, John Stelmach, a citizen of the United States of America, and resident of the State of Arizona, having a postal address of 740 6th Street, Prescott, Arizona, 86301, have invented a new and useful "**Door Stop and Holder Apparatus**", of which the following forms the specification.

“Door Stop and Holder Apparatus”

BACKGROUND OF THE INVENTION

CROSS REFERENCE TO RELATED APPLICATIONS

Not applicable.

5 Field of the Invention

The present invention relates to the field of door stop devices in general and in particular to a door stop and holder arrangement wherein, either the holder and/or door stop functions as a door bumper.

Description of Related Art

10 As can be seen by reference to the following U.S. Patent Nos. 6,135,516; 2,376,117; Des. 309,708; 3,737,186; and, 3,636,727, the prior art is replete with myriad and diverse door securing or stopping arrangements.

While all of the aforementioned prior art constructions are more than adequate for the basic purpose and function for which they have been specifically designed, they
15 are uniformly deficient with respect to their failure to provide a simple, efficient, and practical combined door stops and holder apparatus wherein, the door stop is tethered to the holder so as not to be displaced or lost, and wherein, in two different versions of the invention, the doorstop per se or in combination with the holder, acts as a non-marking bumper for the door when it swings inwardly against a wall.

20 Unfortunately, none of the aforementioned prior art constructions have even remotely contemplated such a dual function arrangement in their design or structure.

As a consequence of the foregoing situation, there has existed a longstanding need for a new and improved dual purpose door stop and holder apparatus that safely immobilizes a door in a closed position and which also provides a cushioned bumper that prevents a door from marking an adjacent wall when fully opened and, the provision of such an apparatus is the stated objective of the present invention.

BRIEF SUMMARY OF THE INVENTION

Briefly stated, the door stop and holder apparatus that forms the basis of the present invention comprises in general a stop unit and a holder unit wherein, the stop unit is operatively connected to the holder unit via a tether member.

As will be explained in greater detail further on in the specification, the stop unit comprises a generally wedge shaped stop member preferably fabricated from hard rubber or the like.

The holder unit comprises a complementary shaped hollow holster member dimensioned to receive a portion of the tapered end of the stop member.

In addition, the holster member has a vertically angled rectangular rear face adapted to be secured to the outer and lower portion of the rear face of the free end of a conventional door so that the stop member can be deployed in its normal fashion.

Furthermore, the angled rectangular front face of the holster member is provided with a pair of generally hollow cylindrical receptacle elements that are dimensioned to receive the opposite ends of a generally cylindrical resilient bumper member that may be deformed into a generally U-shaped configuration that projects outwardly from the front face of the holster member wherein, the stop member is further provided with a flexible tether member that is also attached to one of the exterior faces of the holster member.

BRIEF DESCRIPTION OF THE SEVERAL VIEWS OF THE DRAWINGS

These and other attributes of the invention will become more clear upon a thorough study of the following description of the best mode for carrying out the invention, particularly when reviewed in conjunction with the drawings, wherein:

FIG. 1 is a perspective view of the holster member secured to the rear of a door and the stop member engaged with the bottom of the door;

FIG. 2 is an isolated partially exploded perspective view showing the relationship of the bumper member with the front face of the holster member;

FIG. 3 is a rear perspective view of the apparatus showing the adhesive strip used to mount the holster member on a door; and,

5 FIG. 4 is a side elevation view of the holster member and stop member operatively associated with a door.

DETAILED DESCRIPTION OF THE INVENTION

As can be seen by reference to the drawings, and in particular to FIG. 1, the door stop and holder apparatus that forms the basis of the present invention is
10 designated generally by the reference number 10. The apparatus 10 comprises in general a stop unit 11, and a holder unit 12. These units will now be described in seriatim fashion.

As shown in Figs. 3 and 4, the stop unit 11 comprises a generally wedge shaped stop member 20 fabricated from a hard rubber material 21 or the like wherein,
15 the wedge member 20 has an enlarged end 22, a tapered end 23 and two opposed generally triangular shaped side walls 24.

Turning now to Figs. 2 through 4, it can be seen that the holder unit 12 comprises a generally hollow wedge shaped holster member 40 having a rectangular vertical rear face 41, a rectangular angled front face 42, and a pair of opposed
20 generally triangular opposed side faces 43 wherein, the hollow interior 44 of the holster member 40 is dimensioned to releasably receive at least a substantial portion of the tapered end 22 of the stop member 20 wherein, a flexible tether member 50 is provided to operatively connect the stop member 20 to the holster member 40 to prevent the loss or misplacement of the stop member 20 relative to the holster
25 member 40.

In addition, as can best be appreciated by reference to Figs. 2 and 3, the angled front face 42 of the holster member 40 is provided with a pair of hollow cylindrical receptacle elements 45 that are dimensioned to receive the opposite ends of an elongated cylindrical bumper member 60 fabricated from a resilient material 61
30 that allows the bumper member 60 to be deformed into the generally U-shaped configuration depicted in Figs. 2 and 3.

In this manner, the bumper member **60** projects outwardly from the front face **42** of the holster member **40** to initiate contact with any wall surface **102** within the arc of rotation of the door **100**.

5 Furthermore, as can best be seen by reference to Figs. 3 and 4, the rear face **41** of the holster member **40** is further provided with a strip of adhesive **46** for attaching the holster member **40** on the lower portion of the rear face **101** of the free end of the swinging door **100**.

10 In an alternate version of the preferred embodiment depicted in Fig. 4, it can be seen that the height of the holster member **40** is relatively truncated as indicated by the dashed lines such that the enlarged end **23** of the stop member **20** will project beyond the top of the holster member **40** to serve either as a primary or auxiliary impact cushioning element.

15 Although only an exemplary embodiment of the invention has been described in detail above, those skilled in the art will readily appreciate that many modifications are possible without materially departing from the novel teachings and advantages of this invention. Accordingly, all such modifications are intended to be included within the scope of this invention as defined in the following claims.

20 Having thereby described the subject matter of the present invention, it should be apparent that many substitutions, modifications, and variations of the invention are possible in light of the above teachings. It is therefore to be understood that the invention as taught and described herein is only to be limited to the extent of the breadth and scope of the appended claims.